

TITLE: PROGRAM SUPPORT FOR ACTIVE BUILDINGS DIVISION, SYSTEM DEVELOPMENT
BRANCH, OFFICE OF SOLAR APPLICATIONS FOR BUILDINGS

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MASTER

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University of California

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LOS ALAMOS SCIENTIFIC LABORATORY

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PROGRAM SUPPORT FOR ACTIVE BUILDINGS DIVISION
SYSTEM DEVELOPMENT BRANCH, OFFICE OF SOLAR APPLICATIONS FOR BUILDINGS*

LOS ALAMOS NATIONAL LABORATORY

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W-7504-ENG-36

ABSTRACT

Program support work performed by Los Alamos National Laboratory for the Department of Energy, Office of Solar Applications for Buildings, Division of Active Heating and Cooling is described. Background information and accomplishments are included.

OBJECTIVE

This program provides technical management support and contract monitoring for the Systems Development Branch, Division of Active Heating and Cooling, Office of Solar Applications for Buildings, Department of Energy, in the areas of collectors for solar-assisted heat pumps, collectors for Rankine and absorption cooling, and materials used in these collectors. As of October 1980, there were 28 such projects requiring contract monitoring and technical management.

The primary responsibility involves the continuous and close monitoring and evaluation of the technical activities of DOE contractors. This includes review of all their reports and publications, site visits, technical progress evaluation and redirection, contract modifications, analyses of contractor time schedules and goals, and the coordination of these projects with the overall solar heating and cooling program.

Other responsibilities include assisting with the preparation of solicitations of new proposals (RFPs and PRDAs); the review and evaluation of new proposals, both solicited and unsolicited; review of statements of work for new contracts; short- and long-term overall program planning; and the promotion of exchange of information between contractors, government agencies, other national laboratories, and industry and university groups involved in solar energy work.

These responsibilities apply to the areas of collectors and materials for solar-assisted heat pumps, for Rankine cooling, and for absorption cooling.

BACKGROUND

This program support is a continuing effort that began in 1975 when Los Alamos conducted an assessment of solar heating and cooling technology and, on the basis of that assessment, prepared the first draft of the National Program Plan for Research and Development in Solar Heating and Cooling for Buildings, Agriculture and Industrial Applications, DOE/CS-0008. The Laboratory's role

in implementing the R&D Plan and supporting the resulting program has been a major one involving primary responsibility for the collector and materials R&D and supporting responsibility for systems analysis and AIPH programs. As a result of reorganization and restructuring of the Office of Solar Applications, the collector R&D program is now imbedded in the various programs of the Systems Development Branch.

TECHNICAL ACCOMPLISHMENTS

Programs supported by the technical staff at the Laboratory have now reached a mature level. The collector program, which was largely implemented in FY-77 through a series of four solicitations, has involved as many as 90 projects for which Los Alamos had technical monitoring responsibility. The program currently involves 49 active projects. Not all of these projects can be monitored on the funding of this proposal, which is primarily oriented toward providing technical support for collectors for Rankine, absorption, and heat pump systems. Many development projects have already been completed, but many important results from study and research projects are just beginning to surface. The nature of the support work now concentrates on review and evaluation of accomplishments and utilization of results.

SUPPORT ACTIVITIES SINCE OCTOBER 1, 1980

- o Major Contractor Reports Reviewed. We reviewed four semiannual reports, 18 draft final reports, and six final reports.
- o Site Visits. Our technical monitors made nine site visits to review the projects, assess accomplishments, and help guide future work.
- o Project Reviews. We conducted evaluation and reviews of six projects.
- o Coordination Activities. We participated in the work of two committees, the Solar Optical Materials Program Activity Committee and the American Society for Testing and Materials Committee on Materials Performance, whose purpose is the improvement of materials for solar applications.
- o New Projects. We wrote Statements of Work and Justifications for Noncompetitive Procurement for two unsolicited proposals that we had recommended for funding. These new projects started work in February 1981.

*Work performed under the auspices of the US Department of Energy, Office of Solar Applications for Buildings.

CONTRACT INFORMATION		
START DATE April, 1977	END DATE Continuing	CONTRACT VALUE 14.81 \$200k

MILESTONES		
Item		Due date
1	Comprehensive summary report on the technical status of the program subelement mentioned in Paragraph 1.	September, 1981.
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